

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of)	
)	
CHANG, Chawnshang)	Art Unit: Unassigned
)	
Application No. 10/517,155)	Examiner: Unassigned
)	
International Filing Date: June 6, 2003)	Confirmation No. 5685
)	
For: ANDROGEN RECEPTOR)	
COREGULATORS)	

RESPONSE TO NOTIFICATION OF DEFECTIVE RESPONSE

Mail Stop PCT
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

NEEDLE & ROSENBERG, P.C.
Customer Number 23859

Sir:

In response to Notification of Defective Response mailed April 26, 2006, applicants hereby submit a diskette containing the corrected Sequence Listing for this application in computer readable form (CRF) and a corrected paper copy of the Sequence Listing in compliance with 37 C.F.R. §§ 1.821-1.825.

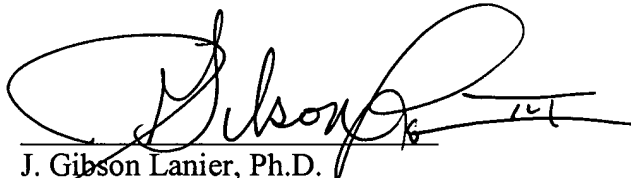
Applicant also provides herewith a statement that the content of the Sequence Listing information recorded in computer readable form is identical to the written Sequence Listing and includes no new matter.

ATTORNEY DOCKET NO. 21108.0011U6
Application No. 10/517,155

A Credit Card Payment Form PTO-2038 authorizing payment in the amount of \$795.00 representing the fee for a small entity under 37 C.F.R. § 1.17(a)(4), and a Request for Extension of Time are enclosed. This amount is believed to be correct; however, the Commissioner is hereby authorized to charge any deficiency or credit any overpayment to Deposit Account No. 14-0629.

Respectfully submitted,

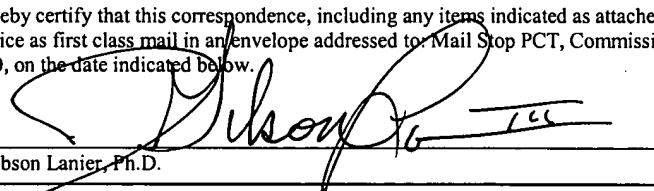
NEEDLE & ROSENBERG, P.C.


J. Gibson Lanier, Ph.D.
Registration No. 57,519

NEEDLE & ROSENBERG, P.C.
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(678) 420-9300
(678) 420-9301 (fax)

CERTIFICATE OF MAILING UNDER 37 C.F.R. § 1.8

I hereby certify that this correspondence, including any items indicated as attached or included, is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the date indicated below.


J. Gibson Lanier, Ph.D.

Date 6/1/06



UNITED STATES PATENT AND TRADEMARK OFFICE

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 United States Patent and Trademark Office
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 P.O. Box 1450
 Alexandria, Virginia 22313-1450
 www.uspto.gov

U.S. APPLICATION NUMBER NO.	FIRST NAMED APPLICANT	ATTY. DOCKET NO.
10/517,155	Chawnshang Chang	21108.0011U6

INTERNATIONAL APPLICATION NO.

PCT/US03/17937

I.A. FILING DATE

06/06/2003

PRIORITY DATE

06/06/2002

23859
 NEEDLE & ROSENBERG, P.C.
 SUITE 1000
 999 PEACHTREE STREET
 ATLANTA, GA 30309-3915

CONFIRMATION NO. 5685

371 FORMALITIES LETTER



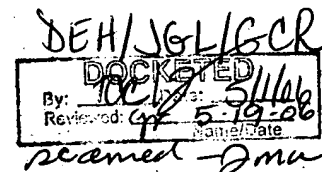
OC000000018605736

Date Mailed: 04/26/2006

NOTIFICATION OF DEFECTIVE RESPONSE

The following items have been submitted by the applicant or the IB to the United States Patent and Trademark Office as a Designated / Elected Office (37 CFR 1.495)

- Indication of Small Entity Status
- Priority Document
- Copy of the International Application filed on 12/06/2004
- Copy of the International Search Report filed on 12/06/2004
- Preliminary Amendments filed on 12/06/2004
- Information Disclosure Statements filed on 12/06/2004
- Biochemical Sequence Diskette filed on 01/10/2005
- Oath or Declaration filed on 01/10/2005
- Biochemical Sequence Listing filed on 01/10/2005
- U.S. Basic National Fees filed on 12/06/2004
- Priority Documents filed on 12/06/2004
- Power of Attorney filed on 12/06/2004



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MAY 01 2006

NEEDLE & ROSENBERG

Applicant's response filed 01/10/2005 is hereby acknowledged. The following requirements set forth in the NOTIFICATION of MISSING REQUIREMENTS mailed 12/02/2005 have not been completed.

- The paper or compact disc copy of the "Sequence Listing" is not the same as the computer readable form of the "Sequence Listing" as required by 37 CFR 1.821(e). Applicant must provide a substitute paper or compact disc copy of the "Sequence Listing", as well as an amendment specifically directing its entry into the application OR a substitute computer readable form (CRF) copy of the "Sequence Listing". These two items must be the same. Applicant must also provide a statement that the content of the sequence listing information recorded in computer readable form is identical to the written (on paper or compact disc) sequence listing and, where applicable, includes no new matter, as required by 37 CFR 1.821(e), 1.821(f), 1.821(g), 1.825(b), or 1.825(d). If the effective filing date is on or after September 8, 2000, see the final rulemaking notice published in the Federal Register at 65 FR 54604 (September 8, 2000) and 1238 OG 145 (September 19, 2000).
- A copy of the "Sequence Listing" in computer readable form has been submitted. However, the content of the computer readable form does not comply with the requirements of 37 CFR 1.822 and/or 1.823, as indicated on the attached copy of the marked -up "Raw Sequence Listing." Applicant must provide a

substitute computer readable form (CRF) copy of the "Sequence Listing" and a statement that the content of the sequence listing information recorded in computer readable form is identical to the written (on paper or compact disc) sequence listing and, where applicable, includes no new matter, as required by 37 CFR 1.821(e), 1.821(f), 1.821(g), 1.825(b), or 1.825(d).

Applicant is required to complete the response within a time limit of ONE MONTH from the date of this Notification or within the time remaining in the response set forth in the Notification of Missing Requirements, whichever is the longer. No extension of this time limit may be granted under 37 CFR 1.136, but the period for response set in the Notification of Missing Requirements may be extended under 37 CFR 1.136(a).

For questions regarding compliance to 37 CFR 1.821-1.825 requirements, please contact:

- **For Rules Interpretation, call (571) 272-0951**
- **For Patentin Software Program Help, call Patent EBC at 1-866-217-9197 or directly at 703-305-3028 / 703-308-6845 between the hours of 6 a.m. and 12 midnight, Monday through Friday, EST.**
- **Send e-mail correspondence for Patentin Software Program Help @ ebc@uspto.gov**

Applicant is reminded that any communications to the United States Patent and Trademark Office must be mailed to the address given in the heading and include the U.S. application no. shown above (37 CFR 1.5)

*A copy of this notice **MUST** be returned with the response.*

PAULETTE R KIDWELL

Telephone: (703) 308-9140 EXT 216

PART 1 - ATTORNEY/APPLICANT COPY

U.S. APPLICATION NUMBER NO.	INTERNATIONAL APPLICATION NO.	ATTY. DOCKET NO.
10/517,155	PCT/US03/17937	21108.0011U6

STIC Biotechnology Systems Branch

RAW SEQUENCE LISTING **ERROR REPORT**

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/517,155
Source: PCT
Date Processed by STIC: 3/31/06

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,**
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY**

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.4.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

- 1. EFS-Bio: (<<http://www.uspto.gov/efc/efs/downloads/documents.htm>> , EFS Submission User Manual: ePAVE)**
- 2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450**
- 3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05):**
U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314

Revised 01/10/06



PCT

RAW SEQUENCE LISTING

DATE: 03/31/2006

PATENT APPLICATION: US/10/517,155

TIME: 15:12:17.

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Output Set: N:\CRF4\03312006\J517155.raw

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 6 <120> TITLE OF INVENTION: Androgen Receptor Coregulators
 9 <130> FILE REFERENCE: 21108.0011U6
 11 <140> CURRENT APPLICATION NUMBER: 10/517,155
 C--> 12 <141> CURRENT FILING DATE: 2004-12-06
 14 <150> PRIOR APPLICATION NUMBER: PCT/US03/17937
 15 <151> PRIOR FILING DATE: 2003-06-06
 17 <150> PRIOR APPLICATION NUMBER: US 60/387,087
 18 <151> PRIOR FILING DATE: 2002-06-06
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 33 <220> FEATURE:
 34 <221> NAME/KEY: misc_feature
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 54 1 5
 56 cga gaa gct cag gag gat gaa ttg ctg gcc ctg gca agt att tac gat 102
 57 Arg Glu Ala Gln Glu Asp Glu Leu Leu Ala Ser Ile Tyr Asp
 58 10 15 20
 60 gga gat gaa ttt aga aaa gca gag tct gtc caa ggt gga gaa acc agg 150
 61 Gly Asp Glu Phe Arg Lys Ala Glu Ser Val Gln Gly Gly Glu Thr Arg
 62 25 30 35

pp 6-7
 Does Not Comply
 Corrected Diskette Needed

RAW SEQUENCE LISTING

DATE: 03/31/2006

PATENT APPLICATION: US/10/517,155

TIME: 15:12:17

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66			40						45						50		
68	tca	aat	gag	tgt	ctc	cag	aat	agt	ggc	ttt	gaa	tac	acc	att	tgc	ttt	246
69	Ser	Asn	Glu	Cys	Leu	Gln	Asn	Ser	Gly	Phe	Glu	Tyr	Thr	Ile	Cys	Phe	
70			55					60							65		
72	ctg	cct	cca	ctt	gtg	ctg	aac	ttt	gaa	ctg	cca	cca	gat	tat	cca	tcc	294
73	Leu	Pro	Pro	Leu	Val	Leu	Asn	Phe	Glu	Leu	Pro	Pro	Asp	Tyr	Pro	Ser	
74	70						75					80				85	
76	tct	tcc	cca	cct	tca	ttc	aca	ctt	agt	ggc	aaa	tgg	ctg	tca	cca	act	342
77	Ser	Ser	Pro	Pro	Ser	Phe	Thr	Leu	Ser	Gly	Lys	Trp	Leu	Ser	Pro	Thr	
78						90					95					100	
80	cag	cta	tct	gct	cta	tgc	aag	cac	tta	gac	aac	cta	tgg	gaa	gaa	cac	390
81	Gln	Leu	Ser	Ala	Leu	Cys	Lys	His	Leu	Asp	Asn	Leu	Trp	Glu	Glu	His	
82				105						110					115		
84	cgt	ggc	agc	gtg	gtc	ctg	ttt	gcc	tgg	atg	caa	ttt	ctt	aag	gaa	gag	438
85	Arg	Gly	Ser	Val	Val	Leu	Phe	Ala	Trp	Met	Gln	Phe	Leu	Lys	Glu	Glu	
86				120					125						130		
88	acc	cta	gca	tac	ttg	aat	att	gtc	tct	cct	ttt	gag	ctc	aag	att	ggt	486
89	Thr	Leu	Ala	Tyr	Leu	Asn	Ile	Val	Ser	Pro	Phe	Glu	Leu	Lys	Ile	Gly	
90			135					140							145		
92	tct	cag	aaa	aaa	gtg	cag	aga	agg	aca	gct	caa	gct	tct	ccc	aac	aca	534
93	Ser	Gln	Lys	Lys	Val	Gln	Arg	Arg	Thr	Ala	Gln	Ala	Ser	Pro	Asn	Thr	
94	150					155					160					165	
96	gag	cta	gat	ttt	gga	gga	gct	gct	gga	tct	gat	gta	gac	caa	gag	gaa	582
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98					170					175						180	
100	att	gtg	gat	gag	aga	gca	gtg	cag	gat	gtg	gaa	tca	ctg	tca	aat	ctg	630
101	Ile	Val	Asp	Glu	Arg	Ala	Val	Gln	Asp	Val	Glu	Ser	Leu	Ser	Asn	Leu	
102					185					190					195		
104	atc	cag	gaa	atc	ttg	gac	ttt	gat	caa	gct	cag	cag	ata	aaa	tgc	ttt	678
105	Ile	Gln	Glu	Ile	Leu	Asp	Phe	Asp	Gln	Ala	Gln	Gln	Ile	Lys	Cys	Phe	
106				200					205						210		
108	aat	agt	aaa	ttg	ttc	ctg	tgc	agt	atc	tgt	ttc	tgt	gag	aag	ctg	ggt	726
109	Asn	Ser	Lys	Leu	Phe	Leu	Cys	Ser	Ile	Cys	Phe	Cys	Glu	Lys	Leu	Gly	
110			215					220							225		
112	agt	gaa	tgc	atg	tac	ttc	ttg	gag	tgc	agg	cat	gtg	tac	tgc	aaa	gcc	774
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114	230					235					240					245	
116	tgt	ctg	aag	gac	tac	ttt	gaa	atc	cag	atc	aga	gat	ggc	cag	gtt	caa	822
117	Cys	Leu	Lys	Asp	Tyr	Phe	Glu	Ile	Gln	Ile	Arg	Asp	Gly	Gln	Val	Gln	
118					250					255					260		
120	tgc	ctc	aac	tgc	cca	gaa	cca	aag	tgc	cct	tcg	gtg	gcc	act	cct	ggt	870
121	Cys	Leu	Asn	Cys	Pro	Glu	Pro	Lys	Cys	Pro	Ser	Val	Ala	Thr	Pro	Gly	
122				265					270						275		
124	cag	gtc	aaa	gag	tta	gtg	gaa	gca	gag	tta	ttt	gcc	cgt	tat	gac	cgc	918
125	Gln	Val	Lys	Glu	Leu	Val	Glu	Ala	Glu	Leu	Phe	Ala	Arg	Tyr	Asp	Arg	
126				280					285						290		
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RAW SEQUENCE LISTING

DATE: 03/31/2006

PATENT APPLICATION: US/10/517,155

TIME: 15:12:17

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133 Pro Arg Pro Cys Cys Gln Leu Pro Val Met Gln Glu Pro Gly Cys Thr
134 310      315      320      325
136 atg ggt atc tgc tcc agc tgc aat ttt gcc ttc tgt act ttg tgc agg      1062
137 Met Gly Ile Cys Ser Ser Cys Asn Phe Ala Phe Cys Thr Leu Cys Arg
138      330      335      340
140 ttg acc tac cat ggg gtc tcc cca tgt aag gtg act gca gag aaa tta      1110
141 Leu Thr Tyr His Gly Val Ser Pro Cys Lys Val Thr Ala Glu Lys Leu
142      345      350      355
144 atg gac tta cga aat gaa tac ctg caa gcg gat gag gct aat aaa aga      1158
145 Met Asp Leu Arg Asn Glu Tyr Leu Gln Ala Asp Glu Ala Asn Lys Arg
146      360      365      370
148 ctt ttg gat caa agg tat ggt aag aga gtg att cag aag gca ctg gaa      1206
149 Leu Leu Asp Gln Arg Tyr Gly Lys Arg Val Ile Gln Lys Ala Leu Glu
150      375      380      385
152 gag atg gaa agt aag gag tgg cta gag aag aac tca aag agc tgc cca      1254
153 Glu Met Glu Ser Lys Glu Trp Leu Glu Lys Asn Ser Lys Ser Cys Pro
154 390      395      400      405
156 tgt tgt gga act ccc ata gag aaa tta gac gga tgt aac aag atg aca      1302
157 Cys Cys Gly Thr Pro Ile Glu Lys Leu Asp Gly Cys Asn Lys Met Thr
158      410      415      420
160 tgt act ggc tgt atg caa tat ttc tgt tgg att tgc atg ggt tct ctc      1350
161 Cys Thr Gly Cys Met Gln Tyr Phe Cys Trp Ile Cys Met Gly Ser Leu
162      425      430      435
164 tct aga gca aac cct tac aaa cat ttc aat gac cct ggt tca cca tgt      1398
165 Ser Arg Ala Asn Pro Tyr Lys His Phe Asn Asp Pro Gly Ser Pro Cys
166      440      445      450
168 ttt aac cgg ctg ttt tat gct gtg gat gtt gac gac gat att tgg gaa      1446
169 Phe Asn Arg Leu Phe Tyr Ala Val Asp Val Asp Asp Ile Trp Glu
170      455      460      465
172 gat gag gta gaa gac tag ttaactactg ctcaagatat ttaactactg      1494
173 Asp Glu Val Glu Asp *
174 470
176 ctcaagatat ggaagtggat tgtttttccc taatcttccg tcaagtacac aaagtaactt      1554
177 tgcgggatat ttaggggtact attcattcac tcttctgcg tagaagatat ggaagaacga      1614
178 ggtttatatt ttcattgtgt actactgaag aaggtgcatt gatacatttt taaatgtaag      1674
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191 Gly Gly Glu Thr Arg Ile Tyr Leu Asp Leu Pro Gln Asn Phe Lys Ile

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RAW SEQUENCE LISTING

DATE: 03/31/2006

PATENT APPLICATION: US/10/517,155

TIME: 15:12:17

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195 Tyr Thr Ile Cys Phe Leu Pro Pro Leu Val Leu Asn Phe Glu Leu Pro
196 65          70          75          80
197 Pro Asp Tyr Pro Ser Ser Ser Pro Pro Ser Phe Thr Leu Ser Gly Lys
198          85          90          95
199 Trp Leu Ser Pro Thr Gln Leu Ser Ala Leu Cys Lys His Leu Asp Asn
200          100          105          110
201 Leu Trp Glu Glu His Arg Gly Ser Val Val Leu Phe Ala Trp Met Gln
202          115          120          125
203 Phe Leu Lys Glu Glu Thr Leu Ala Tyr Leu Asn Ile Val Ser Pro Phe
204          130          135          140
205 Glu Leu Lys Ile Gly Ser Gln Lys Lys Val Gln Arg Arg Thr Ala Gln
206 145          150          155          160
207 Ala Ser Pro Asn Thr Glu Leu Asp Phe Gly Gly Ala Ala Gly Ser Asp
208          165          170          175
209 Val Asp Gln Glu Glu Ile Val Asp Glu Arg Ala Val Gln Asp Val Glu
210          180          185          190
211 Ser Leu Ser Asn Leu Ile Gln Glu Ile Leu Asp Phe Asp Gln Ala Gln
212          195          200          205
213 Gln Ile Lys Cys Phe Asn Ser Lys Leu Phe Leu Cys Ser Ile Cys Phe
214          210          215          220
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216 225          230          235          240
217 Val Tyr Cys Lys Ala Cys Leu Lys Asp Tyr Phe Glu Ile Gln Ile Arg
218          245          250          255
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220          260          265          270
221 Val Ala Thr Pro Gly Gln Val Lys Glu Leu Val Glu Ala Glu Leu Phe
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223 Ala Arg Tyr Asp Arg Leu Leu Leu Gln Ser Ser Leu Asp Leu Met Ala
224          290          295          300
225 Asp Val Val Tyr Cys Pro Arg Pro Cys Cys Gln Leu Pro Val Met Gln
226 305          310          315          320
227 Glu Pro Gly Cys Thr Met Gly Ile Cys Ser Ser Cys Asn Phe Ala Phe
228          325          330          335
229 Cys Thr Leu Cys Arg Leu Thr Tyr His Gly Val Ser Pro Cys Lys Val
230          340          345          350
231 Thr Ala Glu Lys Leu Met Asp Leu Arg Asn Glu Tyr Leu Gln Ala Asp
232          355          360          365
233 Glu Ala Asn Lys Arg Leu Leu Asp Gln Arg Tyr Gly Lys Arg Val Ile
234          370          375          380
235 Gln Lys Ala Leu Glu Glu Met Glu Ser Lys Glu Trp Leu Glu Lys Asn
236 385          390          395          400
237 Ser Lys Ser Cys Pro Cys Cys Gly Thr Pro Ile Glu Lys Leu Asp Gly
238          405          410          415
239 Cys Asn Lys Met Thr Cys Thr Gly Cys Met Gln Tyr Phe Cys Trp Ile
240          420          425          430

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RAW SEQUENCE LISTING

DATE: 03/31/2006

PATENT APPLICATION: US/10/517,155

TIME: 15:12:17

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Output Set: N:\CRF4\03312006\J517155.raw

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292 cct ccc cca tcc tat ggc cac cag cca aca ggg cag tct ggg gag tct      96
293 Pro Pro Pro Ser Tyr Gly His Gln Pro Thr Gly Gln Ser Gly Glu Ser
294         20         25         30
296 tca gga gcc tcg ggg gac aag gac cac ctg tac agc acg gta tgc aag      144
297 Ser Gly Ala Ser Gly Asp Lys Asp His Leu Tyr Ser Thr Val Cys Lys
298         35         40         45
300 cct cgg tcc cca aag cct gca gcc ccg gcc gcc cct cca ttc tcc tct      192

```

10/5/7, 155

6

<210> 11
<211> 32
<212> PRT
<213> Homo sapien

<220>

<221> VARIANT

what about Xaa at location 5?

<222> 2-3, 6-13, 15, 17-18, 20-21, 23-28, 30-31

<223> Xaa can be any amino acid

<400> 11

Cys	Xaa	Xaa	Cys	(Xaa)	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Cys	Xaa	His
1				5					10					15	
Xaa	Xaa	Cys	Xaa	Xaa	Cys	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Cys	Xaa	Xaa	Cys
			20					25					30		

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/517,155

DATE: 03/31/2006
TIME: 15:12:18

Input Set : A:\211080011U6.TXT
Output Set: N:\CRF4\03312006\J517155.raw

FYT
Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:11; Xaa Pos. ~~2,3~~ (5) ~~6,7,8,9,10,11,12,13,15,17,18,20,21,23,24,25,26,27~~
Seq#:11; Xaa Pos. ~~28,30,31~~
Seq#:12; Xaa Pos. 2,3,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,22,23,25
Seq#:12; Xaa Pos. 26,28,29,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46
Seq#:12; Xaa Pos. 48,49

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/517,155

DATE: 03/31/2006

TIME: 15:12:18

Input Set : A:\211080011U6.TXT

Output Set: N:\CRF4\03312006\J517155.raw

L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:1028 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:0

M:341 Repeated in SeqNo=11

L:1044 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:0

M:341 Repeated in SeqNo=12